

Atriplex hollowayi

COMMON NAMES

Holloway's crystalwort

BIOSTATUS

Native – Endemic taxon

CURRENT CONSERVATION STATUS

2023 | Threatened – Nationally Critical | Qualifiers: CD, EF, OL

[Jump to previous conservation statuses](#)

CATEGORY

Vascular

STRUCTURAL CLASS

Herbs - Dicotyledons other than Composites

FLOWER COLOURS

Cream, Green

DETAILED DESCRIPTION

Annual, succulent, densely branched herb, forming circular 0.8 × 1.2 m mounds on sandy beaches just above mean annual high water tide mark. All exposed parts copiously covered in fine, sugar-like, deciduous, spherical, glistening, ball-like papillae. Branches 10–50 mm long, succulent, creamy yellow, rooting at nodes. Stems pale yellow. Leaves 2–12 × 1–6 mm, grey-green, margins distinctly but irregularly toothed. Plants monoecious. Male flowers axillary, in clusters of 2–4, rarely single; perianth lobes 5, green or pale-cream, 0.8–1 mm, elliptic-oblong; stamens 5, anthers yellow; female flowers minute, 0.8–1.2 mm, shortly stipitate, solitary or paired in leaf-axils. Perianth absent, bracteolea fused for ½ length, lips triangular, obtuse, laciniate, fimbriate to entire; styles 2 not connate; stigmas 2, white, 0.7–1 mm. Fruits 2.8–4.0 × 1.5–2.3, straw-yellow, urceolate, papery. Seed circular, convex 0.9–2 mm diam., chestnut-brown maturing purple-brown.

SIMILAR TAXA

Atriplex billardiarei (Moq.) Hook.f., which can be distinguished by its smooth margined leaves, fused, paired stigma, larger fruits and seeds. *A. billardiarei* appears to have never grown in *A. hollowayi* habitats, and was historically known in New Zealand only from Southland, Stewart Island and Chatham Island sand beaches. Currently it is only known in New Zealand from the Chatham Islands, where it is seasonally abundant.

DISTRIBUTION

Endemic. North Island, formerly recorded from Te Pahi south and east to Hicks Bay, including Mayor (Tuhua) Island, with a disjunct southerly gathering made by Thomas Kirk in the 1800s from Lyall Bay, Wellington. Now known naturally only from Waikuku and Whareana Beaches, on the eastern side of Te Pahi.

HABITAT

Sandy Beaches, at or just above the high water tide mark. Usually found at or in the vicinity of a fresh water stream draining across a beach



Atriplex hollowayi at Waikuku Beach. Photographer: Gillian M. Crowcroft, Licence: All rights reserved.



Atriplex hollowayi adult plant. Photographer: Lisa Forester, Licence: CC BY-SA.

THREATS

At risk from trampling and/or browsing by livestock and palatable to most herbivores. There is some historical evidence suggesting that some of this species decline was caused by botanists collecting whole plants—which to an annual species can be a serious threat. Holloway's crystalwort is also threatened by competition from other introduced strand plants, summer cyclonic storms, human beach users—especially from the ever increasing use of all-terrain vehicles on sand beaches.

GENUS

Atriplex

FAMILY

Amaranthaceae

AUTHORITY

Atriplex hollowayi de Lange et D.A.Norton

SYNONYMS

None

ENDEMIC TAXON

Yes

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

FLOWERING

October - February

FRUITING

December–April

PROPAGATION TECHNIQUE

Easily grown from seed that has first been soaked in fresh water. Can be grown from softwood cuttings early in growing season.

EXTRA INFORMATION

Considerable conservation effort has been undertaken by the Department of Conservation following a recovery plan written specifically for this species in 2001. As a result Holloway's crystalwort has been successfully managed back from the brink of extinction. Plans are underway to reintroduce it to several more southerly locations that fit within its historic range.

PLANT OF THE MONTH

This plant has been featured as a Plant of the Month – see [Trilepidea: NZPCN newsletter for February 2004](#) for the full story.

ETYMOLOGY

atriplex: From an ancient Latin name whose derivation is uncertain, but a possible explanation is the name comes from the Greek a- 'without' and traphein 'nourishment' because many of these species grow in arid desert soils

NVS CODE

ATRHOL

CHROMOSOME NUMBER

2n = 18

PREVIOUS CONSERVATION STATUSES

2017 | Threatened – Nationally Critical | Qualifiers: CD, EF, OL

2012 | Threatened – Nationally Critical | Qualifiers: CD, EF, OL

2009 | Threatened – Nationally Vulnerable | Qualifiers: CD, EF, Inc, OL

2004 | Threatened – Nationally Critical

[Jump to current conservation status](#)

REGIONAL CONSERVATION STATUSES

Auckland: 2025 | Regionally Extirpated Help

The regional threat classification system leverages off the national assessments in the NZTCS, providing information relevant for the regional context. Auckland conservation status information is sourced from the [“Conservation status of vascular plant species in Tāmaki Makaurau / Auckland”](#) Simpkins E et al. (2025) report.

REFERENCES AND FURTHER READING

de Lange, P.J. ; Norton, D.A.; Crowcroft, G.M. 2000: Taxonomy, ecology, and conservation of *Atriplex billardierei* and *A. hollowayi* sp. nov. (Chenopodiaceae) in Australasia. *New Zealand Journal of Botany* 38: 551–567.

Thorsen, M. J.; Dickinson, K. J. M.; Seddon, P. J. 2009: Seed dispersal systems in the New Zealand flora. *Perspectives in Plant Ecology, Evolution and Systematics* 11(4): 285–309.

ATTRIBUTION

Description based on de Lange et al. (2000).

NZPCN FACT SHEET CITATION

Please cite as: de Lange, P.J. (Year at time of access): *Atriplex hollowayi* Fact Sheet (content continuously updated). New Zealand Plant Conservation Network. <https://www.nzpcn.org.nz/flora/species/atriplex-hollowayi/> (Date website was queried)

MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/atriplex-hollowayi/>

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